

From sdraper@ckt.net Wed Jan 07 17:22:21 1998
Received: from girard1.ckt.net (girard1-le1.ckt.net [206.253.50.10]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id RAA27009 for <regional_freq@tapr.org>; Wed, 7 Jan 1998 17:22:15 -0600 (CST)
Received: from LOCALNAME ([206.253.50.165]) by girard1.ckt.net (post.office MTA v2.0 0813 ID# 108-30323) with SMTP id AAA21586 for <regional_freq@tapr.org>; Wed, 7 Jan 1998 17:22:13 -0600
Message-ID: <34B3BA3D.537B@ckt.net>
Date: Wed, 07 Jan 1998 17:24:13 +0000
From: "Stephen C. Draper N5SD" <sdraper@ckt.net>
Reply-To: sdraper@ckt.net
X-Mailer: Mozilla 3.01Gold (Win16; I)
MIME-Version: 1.0
To: regional_freq@tapr.org
Subject: Mitrek Frequency Stability
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anyone have schematics for the Motorola Mitrek Channel Elements?
KXN1088A and KXN1086B ?

I have a Mitrek that drifts around way too much as it warms up.
I know the crystals should have been ordered matched to an element but
this was already done when I got it.

73,
Steve N5SD

From jra@febo.com Wed Jan 07 17:57:28 1998
Received: from meow.febo.com (root@router.febo.com [207.238.207.161]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id RAA28493 for <regional_freq@tapr.org>; Wed, 7 Jan 1998 17:57:22 -0600 (CST)
Received: from meow.febo.com (jra@localhost [127.0.0.1]) by meow.febo.com (8.8.5/8.7.3) with ESMTP id SAA10274 for <regional_freq@tapr.org>; Wed, 7 Jan 1998 18:57:01 -0500
Message-Id: <199801072357.SAA10274@meow.febo.com>
X-Mailer: exmh version 1.6.9 8/22/96
To: regional_freq@tapr.org
Subject: Re: [REGIONAL_FREQ:417] Mitrek Frequency Stability
In-reply-to: Your message of "Wed, 07 Jan 1998 17:26:27 CST."
<34B3BA3D.537B@ckt.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Date: Wed, 07 Jan 1998 18:57:01 -0500
From: John Ackermann N8UR <jra@febo.com>

> Does anyone have schematics for the Motorola Mitrek Channel Elements?
> KXN1088A and KXN1086B ?
>
> I have a Mitrek that drifts around way too much as it warms up.
> I know the crystals should have been ordered matched to an element but
> this was already done when I got it.
>
> 73,

> Steve N5SD

Hi Steve --

I've been searching for those schematics without luck -- they don't seem to be part of the standard Motorola documentation. if you find 'em, could you let me know -- I'd love a copy.

Thanks,

John N8UR (ex-AG9V)
jra@febo.com

From wa6ylb@theworks.com Wed Jan 07 18:56:52 1998
Received: from ns.theworks.com (root@ns.theworks.com [206.171.181.1]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id SAA11422 for <regional_freq@tapr.org>; Wed, 7 Jan 1998 18:56:42 -0600 (CST)
Received: from lizard (visalia45.theworks.com [209.77.229.145]) by ns.theworks.com (8.8.5/8.7.3) with SMTP id QAA02521 for <regional_freq@tapr.org>; Wed, 7 Jan 1998 16:59:08 -0800 (PST)
Message-Id: <3.0.1.16.19980107165628.5f772888@theworks.com>
X-Sender: wa6ylb@theworks.com
X-Mailer: Windows Eudora Light Version 3.0.1 (16)
Date: Wed, 07 Jan 1998 16:56:28
To: regional_freq@tapr.org
From: Byron Smith <wa6ylb@theworks.com>
Subject: Re: [REGIONAL_FREQ:418] Re: Mitrek Frequency Stability
In-Reply-To: <199801072357.SAA10274@meow.febo.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

You should talk with the folks at ICM crystal. They habla elements.

At 05:58 PM 1/7/98 -0600, you wrote:

>> Does anyone have schematics for the Motorola Mitrek Channel Elements?
>> KXN1088A and KXN1086B ?
>>
>> I have a Mitrek that drifts around way too much as it warms up.
>> I know the crystals should have been ordered matched to an element but
>> this was already done when I got it.
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>> Steve N5SD
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>Hi Steve --
>
>I've been searching for those schematics without luck -- they don't
>seem to be part of the standard Motorola documentation. if you find
>'em, could you let me know -- I'd love a copy.
>
>Thanks,
>
>John N8UR (ex-AG9V)

>jra@febo.com

>

>

Byron Smith

wa6ylb@theworks.com - Website: theworks.com/~wa6ylb

wa6ylb@wa6ylb.#cca.ca.usa.noam

Daddy, why doesn't this magnet pick up this floppy disk?

I used to have a handle on life, then it broke...

From highlandfl@worldnet.att.net Thu Jan 08 00:06:17 1998

Received: from mtigwc03.worldnet.att.net (mtigwc03.worldnet.att.net
[204.127.131.34]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id AAA01541 for
<regional_freq@tapr.org>; Thu, 8 Jan 1998 00:06:15 -0600 (CST)

Received: from PC_highlandfl.worldnet.att.net ([12.70.16.177])
by mtigwc03.worldnet.att.net (post.office MTA v2.0 0613)
with SMTP id AAA19158 for <regional_freq@tapr.org>;
Thu, 8 Jan 1998 01:58:38 +0000

Message-ID: <MAPI.Id.0016.006967686c616e643030304130303041@MAPI.to.RFC822>

In-Reply-To: <199801072327.RAA27183@tapr.org>

References: Conversation <199801072327.RAA27183@tapr.org> with last message
<199801072327.RAA27183@tapr.org>

Priority: Normal

X-MSMail-Priority: Normal

X-Priority: 3

To: regional_freq@tapr.org

MIME-Version: 1.0

From: "Russell Oder" <highlandfl@worldnet.att.net>

Subject: Re: [REGIONAL_FREQ:417] REGIONAL_FREQ digest 150

Date: Wed, 07 Jan 98 21:54:55 PST

Content-Type: text/plain; charset="ISO-8859-1"; X-MAPIextension=".TXT"

Content-Transfer-Encoding: quoted-printable

Stephen, if you don't receive the schematic, you might want to do what =
we did. We sent the channel elements to Internation Crystal in Oklahoma =
and ordered the crystals and asked that the crystals be installed and the=
channel element adjusted to put on frequency. It took about 4 weeks but=
in over 2 years, no drift with operation 24 hours a day 7 days a week.

Good luck.

Russell Oder

e-mail address highlandfl@worldnet.att.net

>

> REGIONAL_FREQ Digest 150

>

> Topics covered in this issue include:

>

> 1) Mitrek Frequency Stability

> by "Stephen C. Draper N5SD" <sdraper@ckt.net>

>

> -----
>
> Date: Wed, 07 Jan 1998 17:24:13 +0000
> From: "Stephen C. Draper N5SD" <sdraper@ckt.net>
> To: regional_freq@tapr.org
> Subject: Mitrek Frequency Stability
> Message-ID: <34B3BA3D.537B@ckt.net>
>
> Does anyone have schematics for the Motorola Mitrek Channel Elements?
> KXN1088A and KXN1086B ?
>
> I have a Mitrek that drifts around way too much as it warms up.
> I know the crystals should have been ordered matched to an element but
> this was already done when I got it.
>
> 73,
> Steve N5SD
>
>
> -----
>
> End of REGIONAL_FREQ Digest 150
> *****

From tburton@pcfa.org Thu Jan 08 00:57:47 1998
Received: from wolfdcn.swsc.k12.ar.us ([170.211.23.142]) by tapr.org
(8.7.5/8.7.3/1.9) with ESMTP id AAA15195 for <regional_freq@tapr.org>; Thu, 8 Jan
1998 00:57:44 -0600 (CST)
Received: from Unknown (wolfdcn.swsc.k12.ar.us [170.211.23.142])
by wolfdcn.swsc.k12.ar.us (8.8.8/8.8.5) with SMTP id AAA07443
for <regional_freq@tapr.org>; Thu, 8 Jan 1998 00:57:38 -0600
Message-Id: <199801080657.AAA07443@wolfdcn.swsc.k12.ar.us>
From: "Travis W Burton KB5ILY" <tburton@pcfa.org>
Organization: What is Organization??
To: regional_freq@tapr.org
Date: Thu, 8 Jan 1998 06:56:12 -6
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: Re: [REGIONAL_FREQ:420] Re: REGIONAL_FREQ digest 150
Priority: normal
In-reply-to: <MAPI.Id.0016.006967686c616e643030304130303041@MAPI.to.RFC822>
References: <199801072327.RAA27183@tapr.org>

Hi Gang.

ICM (as mentioned in another response) and International Crystal
Manufacturing in Oklahoma City OK (mentioned below by Russell) are the same
company.

ICM's toll free number is 800-725-1426. They do have faster service plans
available in addition to the 4 weeks, but as you know.. 'speed costs money,
how fast can you afford?. Either you can supply the elements for them to put

the crystals in or you can buy elements from them. As long as your elements are in good shape, use them, it's cheaper.

I hope this helps.

On 8 Jan 98 at 0:08, Russell Oder wrote:

```
> Date: Thu, 8 Jan 1998 00:08:16 -0600 (CST)
> Reply-to: regional_freq@tapr.org
> From: "Russell Oder" <highlandfl@worldnet.att.net>
> To: regional_freq@tapr.org
> Subject: [REGIONAL_FREQ:420] Re: REGIONAL_FREQ digest 150
```

```
> Stephen, if you don't receive the schematic, you might want to do what we did.
> We sent the channel elements to International Crystal in Oklahoma and ordered
> the crystals and asked that the crystals be installed and the channel element
> adjusted to put on frequency. It took about 4 weeks but in over 2 years, no
> drift with operation 24 hours a day 7 days a week.
```

```
>
> Good luck.
```

```
>
> Russell Oder
> e-mail address highlandfl@worldnet.att.net
```

```
>
> -----
```

```
> >
> > REGIONAL_FREQ Digest 150
```

```
> >
> > Topics covered in this issue include:
```

```
> >
> > 1) Mitrek Frequency Stability
> > by "Stephen C. Draper N5SD" <sdraper@ckt.net>
```

```
> >
> > -----
```

```
> >
> > Date: Wed, 07 Jan 1998 17:24:13 +0000
> > From: "Stephen C. Draper N5SD" <sdraper@ckt.net>
> > To: regional_freq@tapr.org
> > Subject: Mitrek Frequency Stability
> > Message-ID: <34B3BA3D.537B@ckt.net>
```

```
> >
> > Does anyone have schematics for the Motorola Mitrek Channel Elements?
> > KXN1088A and KXN1086B ?
```

```
> >
> > I have a Mitrek that drifts around way too much as it warms up.
> > I know the crystals should have been ordered matched to an element but
> > this was already done when I got it.
```

```
> >
> > 73,
> > Steve N5SD
```

```
> >
> >
> > -----
> >
```

> > End of REGIONAL_FREQ Digest 150
> > *****
>
>

73 De Travis W. Burton, KB5ILY
Communications & Warning Officer, Nevada County OES
Assistant Administrator, pcfa.org
Amateur Packet Radio: KB5ILY @ KB5ILY.SWAR.AR.USA.NOAM
Internet: mailto:tburton@pcfa.org OR mailto:kb5ily@amsat.org
WWW: http://pcfa.org/~tburton/
GOD BLESS THE UNITED STATES of AMERICA

From wa5vms@tapr.org Thu Jan 08 06:33:48 1998
Received: from Pjsboro.intellex.com ([206.214.204.172]) by tapr.org
(8.7.5/8.7.3/1.9) with SMTP id GAA03943 for <regional_freq@tapr.org>; Thu, 8 Jan
1998 06:33:45 -0600 (CST)
Message-Id: <3.0.32.19980108065851.00ac3260@tapr.org>
X-Sender: wa5vms@tapr.org
X-Mailer: Windows Eudora Pro Version 3.0 (32)
Date: Thu, 08 Jan 1998 06:58:56 -0600
To: regional_freq@tapr.org
From: "Joe S. Borovetz" <wa5vms@tapr.org>
Subject: Re: [REGIONAL_FREQ:417] Mitrek Frequency Stability
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Steve

Over the past ten years, I have re-crystalled a number of channel elements
for RCA and Motorola radios.

These radios were used in 9600 baud packet service.

I ALWAYS order crystals from ICM. I know people that favor some of the
other crystal manufacturers but ICM is the only house that has provided
quality crystals that STAY on freq.

It is possible for ICM to have some problems.

In early 1988, I ordered several sets of RCA 700 crystals(to be installed
in elements).

For the next 8 months, I chased the freq on these radios until they would
not "net" to the correct freq.

I called ICM and sure enough they had a problem during that time frame.

New crystals were sent, no questions asked.

Many of these radios are installed in the 9600 baud backbone of the Texnet
network in both Oklahoma and Texas.

The network continues to work day in and day out. We do have to touch up

freq every couple of years but this is normal drift, not excessive drift like you mentioned.

One last thought, do not overlook the possibility that your channel elements may have a problem.

I have not done as many Mitreks as I have Micors but I do run across a bad element from time to time.

Joe

At 05:26 PM 1/7/98 -0600, you wrote:

>Does anyone have schematics for the Motorola Mitrek Channel Elements?
>KXN1088A and KXN1086B ?

>

>I have a Mitrek that drifts around way too much as it warms up.

>I know the crystals should have been ordered matched to an element but
>this was already done when I got it.

>

>73,

>Steve N5SD

>

>

>

From no@spam.net Thu Jan 08 13:00:11 1998

Received: from eos.net (eos.eos.net [205.133.149.2]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id NAA08499 for <regional_freq@tapr.org>; Thu, 8 Jan 1998 13:00:04 -0600 (CST)

From: no@spam.net

Received: from 205.133.149.214 (port149214.eos.net [205.133.149.214]) by eos.net (8.8.8/8.7.2) with SMTP id NAA00706 for <regional_freq@tapr.org>; Thu, 8 Jan 1998 13:58:50 -0500 (EST)

Message-ID: <CB5F5B39.1CBB@spam.net>

Date: Thu, 08 Jan 1942 14:00:26 -0400

Reply-To: no@spam.net

X-Mailer: Mozilla 3.02Gold (Macintosh; I; 68K)

MIME-Version: 1.0

To: regional_freq@tapr.org

Subject: Joe, help!

References: <3.0.32.19980108065851.00ac3260@tapr.org>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Joe Borovetz

I read your comments to Steve. Please drop me a line. I need help with some RCA radios.

Tony_aa8ei@eos.net

From n7tr@rnodx.org Thu Jan 08 13:52:14 1998
Received: from heather.greatbasin.com (heather.greatbasin.com [140.174.194.41]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id NAA12342 for <regional_freq@tapr.org>; Thu, 8 Jan 1998 13:52:11 -0600 (CST)
Received: from rich-1 ([143.155.93.10])
by heather.greatbasin.com (8.8.8/8.8.8) with SMTP id LAA13385
for <regional_freq@tapr.org>; Thu, 8 Jan 1998 11:52:08 -0800 (PST)
Message-ID: <000e01bd1c6e\$e6436a40\$0a5d9b8f@rich-1>
Reply-To: "Rich Hallman N7TR" <n7tr@rnodx.org>
From: "Rich Hallman N7TR" <n7tr@rnodx.org>
To: <regional_freq@tapr.org>
Subject: Re: [REGIONAL_FREQ:422] Re: Mitrek Frequency Stability
Date: Thu, 8 Jan 1998 11:51:59 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 4.72.2106.4
X-Mimeole: Produced By Microsoft MimeOLE V4.72.2106.4

>Many of these radios are installed in the 9600 baud backbone of the Texnet
>network in both Oklahoma and Texas.

>

>The network continues to work day in and day out. We do have to touch up
>freq every couple of years but this is normal drift, not excessive drift
>like you mentioned.

Sure wish I lived in WARM Texas!!! ha I have just developed a Problem
that my Micor after 2 years NOW drifts off freq when the temp hits 15
degrees or below...Past two years its been solid at 9600 baud....Guess when
the 6 ft of snow is gone Ill look into getting new Xtals and Channel
Elements.....Hope we have a WARM winter here in Reno!!

See Ya! Rich N7TR Reno

From kb2txp@spacetechnology.com Thu Jan 08 17:53:40 1998
Received: from spacetechnology.com ([208.20.192.1]) by tapr.org (8.7.5/8.7.3/1.9) with ESMTP id RAA28175 for <regional_freq@tapr.org>; Thu, 8 Jan 1998 17:53:38 -0600 (CST)
Received: from p233 ([208.20.192.130]) by spacetechnology.com
with SMTP (IPAD 2.02c/64) id 2362100 ; Sun, 08 Jan 1995 19:54:27 EDT
Message-ID: <000701bd1c90\$a83732a0\$82c014d0@p233>
From: "kb2txp" <kb2txp@spacetechnology.com>
To: <regional_freq@tapr.org>
Subject: Re: [REGIONAL_FREQ:424] REGIONAL_FREQ digest 151
Date: Thu, 8 Jan 1998 18:53:44 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

X-Priority: 3

X-MSMail-Priority: Normal

X-Mailer: Microsoft Outlook Express 4.72.2106.4

X-MimeOLE: Produced By Microsoft MimeOLE V4.72.2106.4

Try looking into using GE Phoenix SE's for 440 9.6k links. We have used them thru out the Western NY areas over the past two years with Very Good results! (Ice on the beams being the only exception) If anyone would like the nessesary mods and sources for the equip., please feel free to drop ME a note..

73, Mark / KB2TXP

kb2txp@kb2txp.#wny.ny.usa.noam

kb2txp@spacetech.com